CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/KRIDL/CEMENT/2012-13

Date: 22.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements and Construction of CC Road from Katarayananagar to Manjunathanagara Via Coconut Garden in Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 20.03.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

Note:

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W-14

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ಬಾಗಲಗುಂಟೆ ಬೆಂಗಳೂರು - 560 073

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2012-13 : 22.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements and Construction of CC Road from Katarayananagar to Manjunathanagara Via Coconut Garden in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 20.03.2013

Date of Testing : 22.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	99	4.95	4.95	95.1	90-100
2.36	218	10.90	15.85	84.2	75-100
1.18	512	25.60	41.45	58.6	55-90
600 Micron	426	21.30	62.75	37.3	35-59
300 Micron	493	24.65	87.40	12.6	8-30
150 Micron	205	10.25	97.65	2.3	0-10

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2012-13 : 22.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements and Construction of CC Road from Katarayananagar to Manjunathanagara Via Coconut Garden in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 20.03.2013

Date of Testing : 22.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25800**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	998	3.87	3.87	96.13	95-100
20	15264	59.16	63.03	36.97	30-70
10	6432	24.93	87.96	12.04	10-35
4.75	2746	10.64	98.60	1.40	0-5

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Job No.: CTCE/BBMP/W.No.14/KRIDL/STEEL/2012-13 23.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the work	:	Improvements and Construction of CC Road from Katarayananagar to Manjunathanagara Via Coconut Garden in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 20.03.2013
Date of Test	:	23.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	548	12.90	O.K	O.K
2	10	0.59	513	552	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CUBE/2012-13

23.04.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Improvements and Construction of CC Road from Katarayananagar to Manjunathanagara Via Coconut Garden in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 20.03.2013

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.03.2013	23.04.2013	8.165	513.8	22.84
2	26.03.2013	23.04.2013	8.248	526.9	23.42
3	26.03.2013	23.04.2013	8.362	530.7	23.59

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CUBE/2012-13 30.04.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Improvements and Construction of CC Road from Katarayananagar to Manjunathanagara Via Coconut Garden in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2012-13 Dated: 20.03.2013

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2013	30.04.2013	8.269	515.3	22.90
2	02.04.2013	30.04.2013	8.475	532.7	23.68
3	02.04.2013	30.04.2013	8.321	528.4	23.48

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